



### ***Consultancy Services***

The scope of Consultancy services offered in the field of Hospital & Medical Waste Management encompasses the areas in Environment, Engineering, Marketing and Training. The aspects covered in these services are outlined below.

#### ***Environment***

1. ***Audit Survey*** of Infectious Waste and Toxic wastes Generation, Handling, Transportation, Treatment and Disposal system existing at site. Recommendations on incremental approach to be taken for betterment of the existing waste management system.
2. ***Waste Management Policy & Plan*** formation guidelines tailored to suit individual Hospital / Clinic / Institute. To periodically review the implementation of agreed upon waste management plan.
3. ***Study of Waste Management Options*** for Waste Segregation, Waste Handling, Waste Packing, Waste Treatment, Waste Transportation and Waste Disposal, suited for individual facility, in accordance with the legislative framework.
4. ***Study of Waste Quantification*** of Categorized wastes and to establish procedure for daily identifying the waste quantity and recording it.
5. ***Establishing of 'Waste Tracking System'***, for onsite waste movements within the institute and for waste movement to offsite facilities for waste Treatment and Disposal.
6. ***Study of Environment Risk Impact*** with the existing waste management practice at each location and to recommend 'Universal Precautions' to be taken to minimize the occurrence of associated risk.
7. ***Study of Environment Impact and Financial Impact*** for Selection of Waste Treatment and Waste Disposal options, for on-site and off-site services.
8. ***Licensing Formalities Assistance*** to Generate, Store, Treat and/or Disposal of Bio-Medical Waste to comply with Bio-Medical (Management and Handling) Rules, July 27, 1998, of Ministry of Environment and Forest.

#### ***Engineering***

1. ***Layout Planning Guidelines*** for on-site Waste Collection, Waste Movement and Waste Handling System.
2. ***Waste Storage Room*** Guidelines and planning assistance.
3. ***Waste Treatment & Disposal Equipment*** Evaluation and Selection Guidelines.
4. ***Steam Distribution and Waste Heat Utilization*** for Steam requirement for Sterilization / Autoclave / Hydroclave / Steam injection equipment and systems.



5. **Incinerator** Design Standards, Engineering requirement, Evaluation guidelines and Training.
6. **Dry and Wet Scrubber emission gas cleaning equipment system** Design Standards, Engineering requirement and evaluation guidelines.
7. **Waste Heat Recovery & Utilization from Incinerator emission** Design Standards, Engineering requirement and evaluation guidelines.
8. **Incineration Plant Operation Survey** and to provide recommendations guidelines.

#### **Marketing**

1. **Product / Equipment Development** assistance based on waste Handling, Treatment and disposal needs.
2. **Product / Equipment Brochures, Technical studies and Presentation Material** Design and Preparation assistance.
3. **Market Surveys and Marketing Plan** preparation assistance.
4. **Sales Staff Training on understanding of Bio-Medical Waste** Handling, Storage, Treatment and Disposal market.
5. **Collaboration Partners, Representatives, Distributors, Sales and Service** partner selection assessment and assistance.

#### **Training**

1. **Awareness of Potential Spread of Diseases from Infectious waste** and Recommendatory '**Universal Precautions**' to be adopted.
  2. **Waste Quantification** Survey methods and establishing of '**Waste Tracking**' program.
  3. **Orientation to Waste Categorization**, waste **Segregation**, waste **Packaging** and **colour coding**.
  4. **Waste Treatment Options** and available means.
  5. **Incinerator** Design Specifications and Standards guidelines, for waste disposal incinerators.
  6. **Autoclave** Design Specifications and Standards guidelines, for waste Treatment autoclaves.
  7. **Steam Generation, Distribution and Waste Heat Utilization** system Design Specifications and Standards guidelines.
  8. **Toxic & Hazardous Waste** Identification, Listing, Safety measures, and Disposal options.
  9. **Waste Reduction, Reuse and Recycling** Programs.
  10. **Environment Impact Assessment**.
  11. **Waste Management Policy & Planning** approach at a Health Care facility.
  12. **Understanding of Bio-Medical Waste (Management & Handling) Rules**, July 27 1998, of MoEF, The Gazette of India No.460.
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